

Trade & Industry Times

A publication for Indiana's Career & Technical Educators

*Indiana Department of Education
College and Career Preparation*

Putting the Math in Career and Technical Courses

The Indiana Department of Education and the Department of Workforce Development are teaming up to enhance mathematics curriculum in Career and Technical Education courses.

They're inviting CTE and Math instructors to participate in this year's Math-in-CTE program.

The program teams Math and CTE instructors together during a five day intensive workshop where they develop lesson plans in which the mathematics components that naturally occur in specific CTE courses are built upon.

The National Research Center has found that the Math-in-CTE program/process has helped increase standardized math test scores for students whose CTE teachers used math-enhanced lessons.

Besides the summer workshop, teachers must also be available for 2 days in the Fall, 2 days in the spring, and a final wrap up day.

This year's Math-in-CTE workshop will take place the week of July 12th-16th in Indianapolis.

The workshop is open to teachers in Health Sciences, Automotive Services, Building Trades, and Agricultural Education, as well as all Algebra, Pre-Algebra, and Geometry Teachers.

2009 was Indiana's first year of participation in Math-in-CTE. Teacher teams from around the state participated.

Teachers who participate will be able to earn credit towards advanced degrees and a stipend. If you're interested in participating contact



CTE and Math Instructors work together to develop a lesson plan

Davis Moore at the Indiana Department of Education at 317-232-0512 or e-mail dmoore@doe.in.gov.

Or

Andrea Maurer at the Indiana Department of Workforce Development AMaurer@dwd.IN.gov

Of Interest

- Professional Development Opportunities
- Resource Links.
- Upcoming Events
- Student Opportunities

Please submit suggested educational resource links and story items to Career Specialist Davis Moore at dmoore@doe.in.gov

Opportunities for Students

Future Architects and Interior Designers

Indiana state university is seeking bright, motivated high school sophomores and juniors to participate in a one-of-a-kind college experience. Student will participate in a one-week hands-on experience while earning college credit and scholarships.

Indiana state's summer honors offers \$1,000 in scholarship opportunities for future enrollment at Indiana State, hands-

on learning opportunities, and one college credit.

This course will introduce students to the discipline of interior architecture/design and showcase opportunities for success within this profession. Students will study projects and shelters which integrate beauty, accessibility, sustainability and technical sophistication.

In addition to these projects, students will also have the opportunity to participate in

walking tours and a field trip to Indianapolis to visit an architectural firm. Space is limited so don't let your students miss out on this valuable opportunity. For more information and applications go to:

www.indstate.edu/experience/design.html

Opportunities for Students Continued



Students hone their technology skills

High Tech Camp for Girls

Microsoft DigiGirlz High Tech Camp for girls works to dispel stereotypes of the high-tech industry and gives young people a chance to experience first-hand what it is like to develop cutting-edge technology. Students are exposed to executive speakers, technology tours, demonstrations, and hands-on workshops.

<https://www.microsoft.com/about/diversity/programs/digigirlz/hightechcamp.aspx>

Boiler Tech Challenge

Purdue is offering students a chance to learn valuable team building and problem solving skills as they work with the technology of tomorrow. Purdue University hosts its first annual Boiler Tech Challenge on April 23rd. You can find out more and register online at

<http://www.tech.purdue.edu/columbus/btc/default.htm>

Online Training by LEA

Indiana's Law Enforcement Academy offers a series of informative online training modules. These lessons are designed for current law enforcement officers, however they also offer a tremendous opportunity for students considering a career in law enforcement to see how the professionals get trained. You can access the online training at the link below.

<http://www.in.gov/ilea/2430.htm>

Online Resource Links

Todayclass.com

Cosmetology teachers can take advantage of a free trial online resource. Today's Class offers online lessons designed to help instructors better prepare their students for board certifications. They also offers online resources and lessons for Automotive Services teachers. They provide technical training to students on automotive theory and concepts. Visit them at www.todayclass.com

gcffreelearn.org

The Goodwill Community Foundation offers a free website that students can use to brush up on basic mathematics skills, computer basics, Financial Literacy and much more. This site offers a perfect way for students to brush up on basic curriculum as they tackle the rigors of a Career and Technical education course. All courses and content are free and self paced. You can register for an account at gcffreelearn.org

Whatkidscando.org

You can find valuable information on grants, scholastic competitions, and other learning national and international programs geared for K-12 students at www.whatkidscando.org

Know a good resource link? Well let us know. Contact Davis Moore at dmoore@doe.in.gov

Information for Teachers

Cancellation/Deferment Options for Teachers

If you're a teacher serving in a low-income or subject-matter shortage area, it might be possible for you to cancel or defer your student loans. Visit www.studentaid.edu for more information.

Questions Regarding Indiana's High School Course and Credit Requirements is now available. This also includes the most recent Core 40 diploma chart. Visit

http://www.doe.in.gov/core40/diploma_requirements.html

Learning Connection website. You can find lesson plans, curriculum standards, online teaching communities and much more. Check out the site at the link below.

www.learningconnection.gov

Updated Indiana Course and Credit Requirements

An update of Frequently Asked

IDOE's Learning Connection

Be sure to sign up for the Indiana Department of Education's



Caption describing picture or graphic.

News & Tidbits

State Farm Insurance presents Career Center with Check

A big celebration was held at Heartland Career Center in Wabash on March 11th. Several State Farm Insurance representatives from Indiana and Michigan came to present the school with their \$10,000 check for the "2010 Sustainability Grant" award.

Many guests were also there from the local community to congratulate SkillsUSA advisors and students on their project to convert a gas-powered vehicle to a "green

technology" for use by the school corporation. A tour of the school followed the presentation and everyone enjoyed seeing the work –in-progress.

Heartland Career Center is one of twelve schools from across the country selected to receive the \$10,000 Sustainability Grant.

In other SkillsUSA News the group is gearing up for their State Conference which will be held at the Walker Career Center in Indianapolis April 16th-17th. If you'd like to help out

or get more information contact SkillsUSA Indiana co-directors, Bonnie Holaday at 812-212-5137 or Brenda Rosentreter at 574-329-1480.

Want to highlight a big event at your school? Let us know. E-mail Davis Moore at dmoore@doe.in.gov



SkillsUSA Students show off their work

CTSO's Working Together

Career and Technical Student Organizations are coming together to share ideas and resources.

The CTSO Coordinating Council held its inaugural meeting on March 15th. The Council is composed of state advisors from virtually all of Indiana's CTSOs. Members include representatives from FFA, DECA, HOSA, IYFA, BPA, SkillsUSA, and FCCLA.

Members work together to pro-

vide joint educational and leadership opportunities so students may develop personally and professionally in preparation for career and life.

This isn't the first time CTSO advisors and leadership have come together. They worked together last year to host a combined leadership camp and a Fall Leadership Conference in Indianapolis.

The group is currently planning this year's joint events. If you'd like to help out or find out more,

visit their website at.

<http://indianaccc.webnode.com//>



Fall Leadership Conference

"Members work together to provide joint educational and leadership opportunities"

Gearing up for Robotics

Boilermaker Regional Robotics

The annual Boilermaker Regional Robotics competition wrapped up this past Saturday at Purdue University. The annual competition put on by FIRST (For Inspiration and Recognition of Science and Technology) pitted over 1,000 teams from across the Midwest against each other in a robotic game of soccer. Teams have

six weeks beginning in September to design and build a robot. Over 45,000 students participated in this year's event.

Robotics Educator Grant

In related news the Indiana Robotics Educators grant has been funded once again for Summer 2010. Please register early.

First year participants will receive a VEX Robotics Starter Kit,

Autodesk Inventor Professional Software, Autodesk Curriculum, workshop CD and other items.

Second year participants will receive a VEX Starter Kit, VEX Sensor Kit, workshop CD and other items

Third year participants will receive a Visual Edge Competition Kit and workshop CD. For registration information [Click Here](#)

